Utah Public Utilities, Energy and Technology Interim Committee

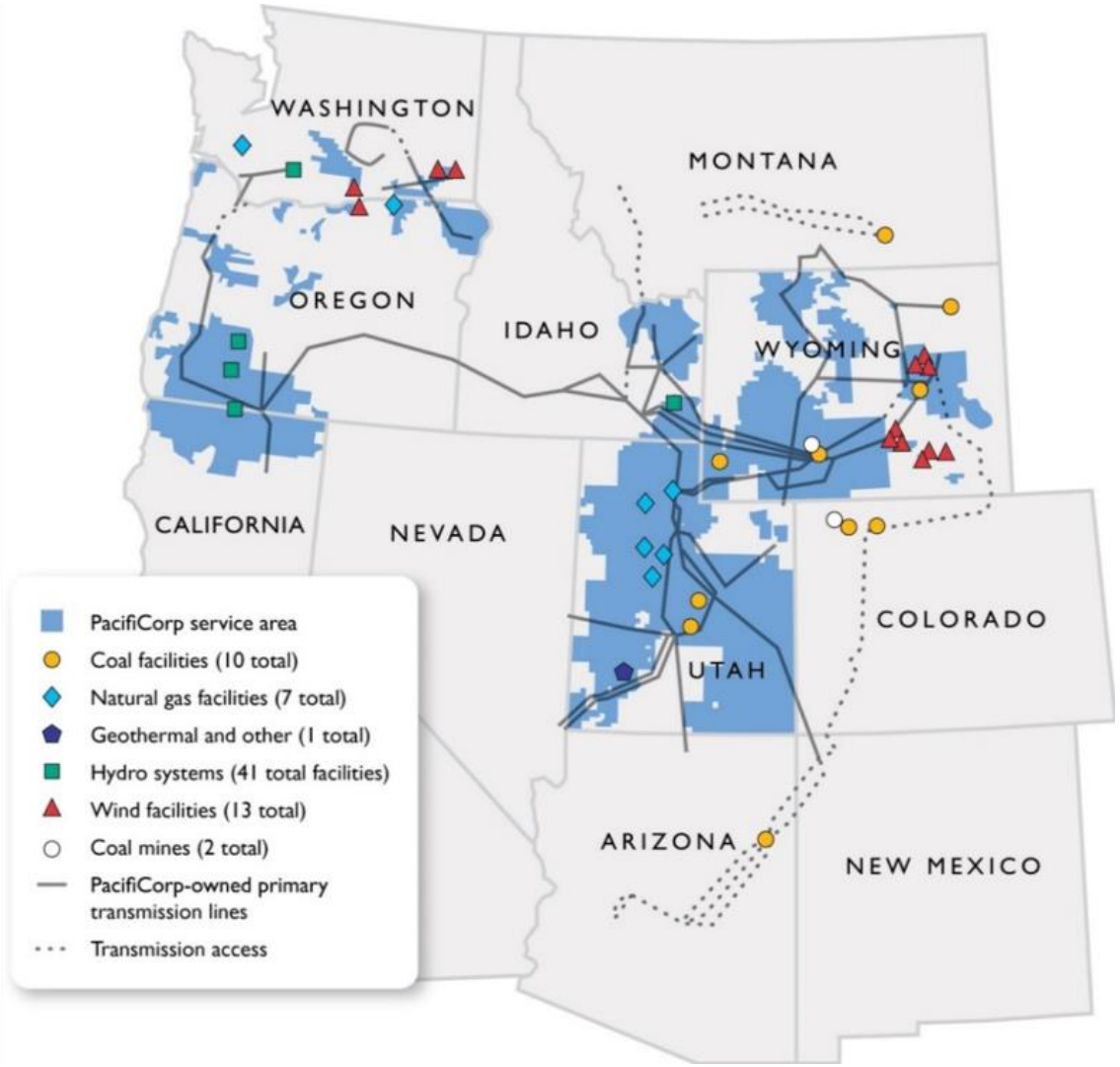
October 20, 2021





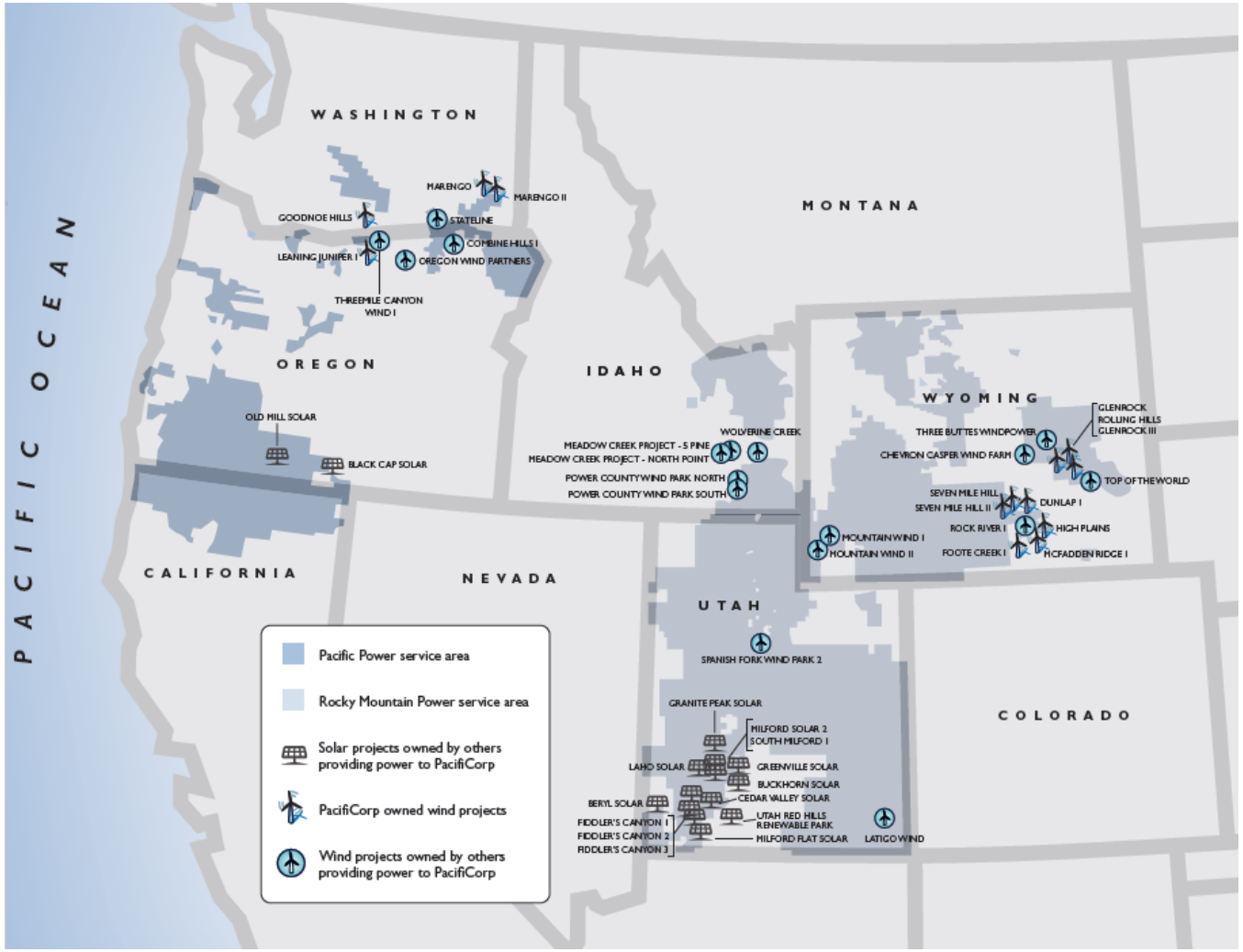

ROCKY MOUNTAIN POWER
A DIVISION OF PACIFICORP

PACIFICORP OVERVIEW



- Rocky Mountain Power and Pacific Power
- 5,600 employees
  - More than 1,800 Utah employees
- 2 million electricity customers in six states
  - 948,000 Utah customers in 26 counties
- 141,000 square miles of service territory in six states
- 16,500 miles of transmission in 10 western states
- 10,894 MW owned generation capacity
- Thermal, hydroelectric, wind, solar and geothermal

NEW WIND AND SOLAR GENERATION



- 2021 Request for Proposals produced the following shortlist:
  - 1,641 MW of wind in Wyoming
  - 151 MW of wind in Idaho
  - 210 MW of solar in Oregon
  - 1,092 MW of solar and 697 MW of battery capacity in Utah
  - A new 400-mile, 500-kilovolt transmission line from eastern Wyoming to central Utah that was permitted over the previous decade
  - All projects to be constructed by 2024

ENERGY STORAGE – PUMPED HYDRO

- H.B. 388 - State Energy Policy Amendments
  - Included pumped storage as a resource that the State of Utah will promote

Enrolled Copy **H.B. 388**

STATE ENERGY POLICY AMENDMENTS

2021 GENERAL SESSION

STATE OF UTAH

Chief Sponsor: Carl R. Albrecht

Senate Sponsor: Ronald M. Winterton

LONG TITLE

General Description:

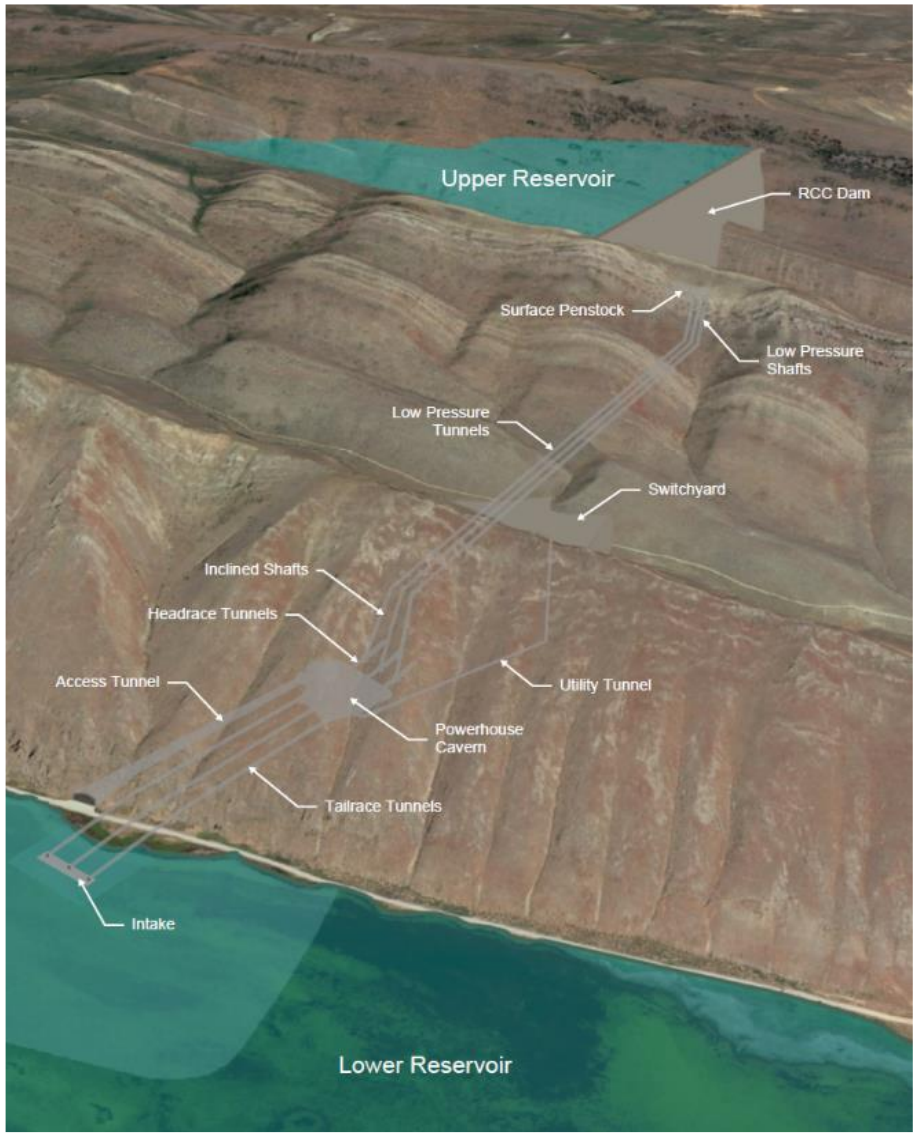
This bill amends the state energy policy.

Highlighted Provisions:

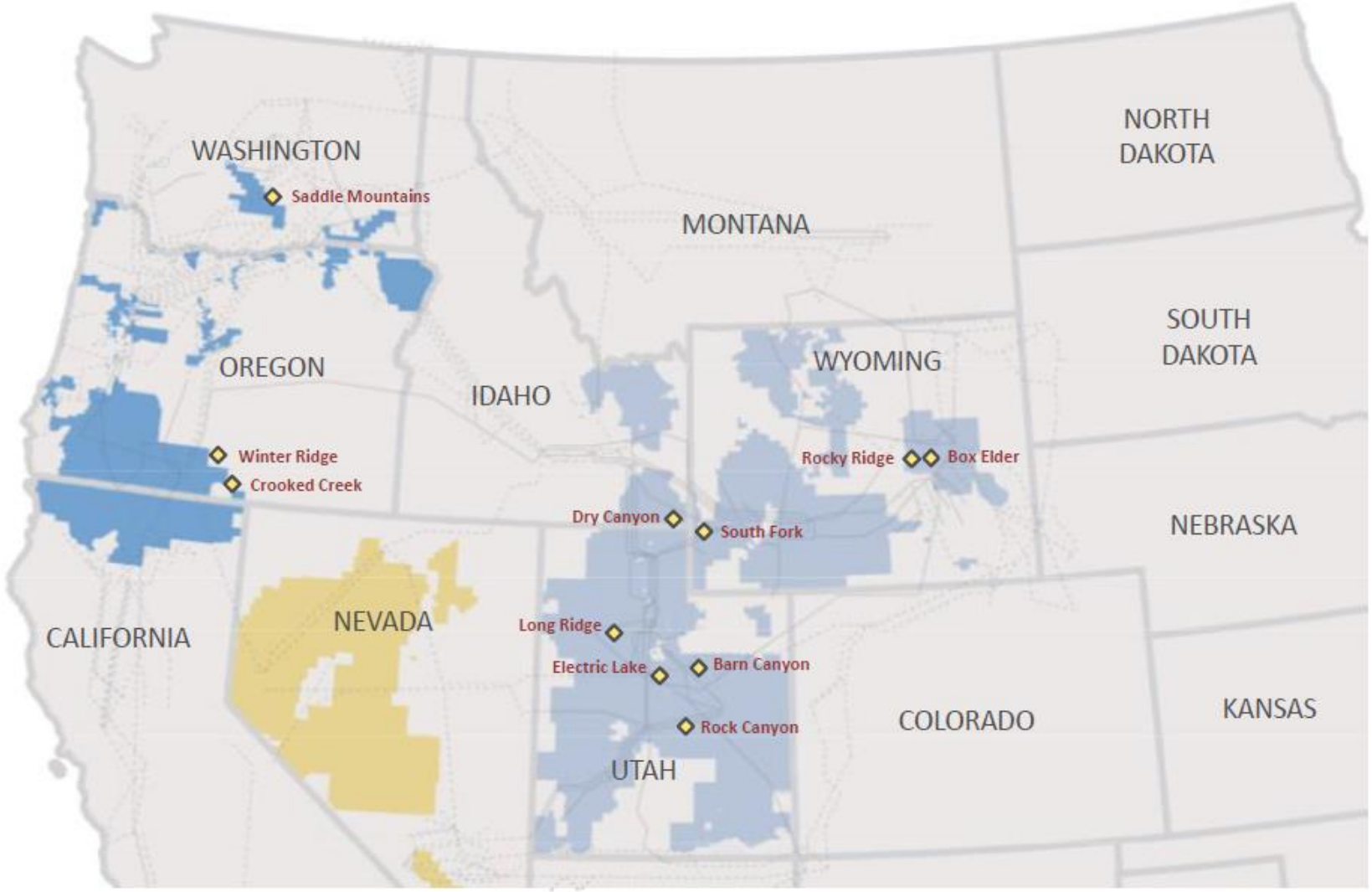
This bill:

▸ amends the state energy policy to include a policy of developing energy resources with the intent to:

- promote the development of pumped storage and advanced energy systems including hydrogen;
- respond to disruptions in state energy resources; and
- maintain reserves in case of disruptions.

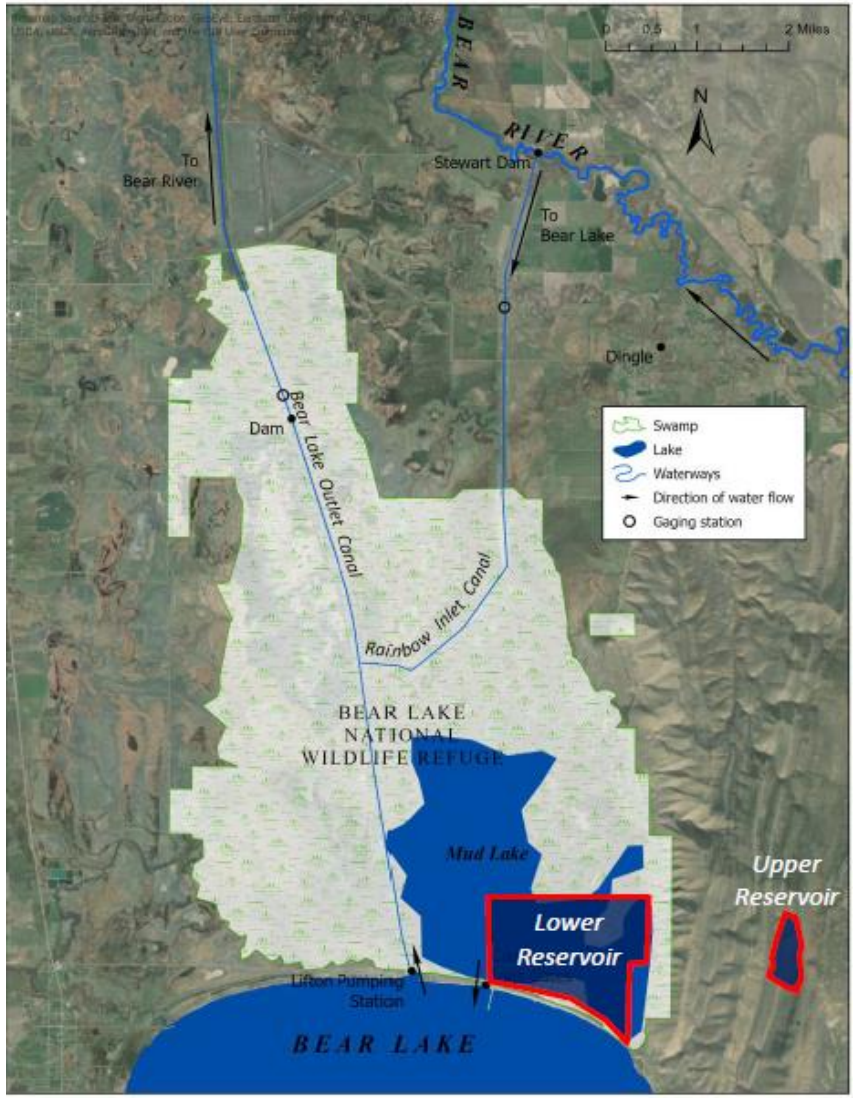


PUMPED STORAGE PRELIMINARY PERMIT APPLICATIONS



DRY CANYON ENERGY STORAGE

- Project is currently scoped at 1,800 megawatts (MW) to provide significant long-duration (16-hour) storage and grid support
- Mitigation and enhancement measures in Mud Lake will result in no net loss of wetlands and will improve wetland function



ADVANCED NUCLEAR

- Advanced nuclear power plant to be sited at a retiring coal plant in Wyoming
- Key elements of TerraPower Natrium design:
  - 345 MW sodium-cooled fast reactor
  - Includes molten salt thermal energy storage; that can ramp output to 500 MW
  - Provides dispatchable, reliable power generation to complement intermittent renewable energy
  - Retention of workforce from retiring coal plants
  - Leverages existing infrastructure from decommissioned sites, including transmission and grid infrastructure
  - Low pressure design which increases safety and reduces cost

CARBON EMISSIONS REDUCTIONS